

## CLAIMS

- ✓1. A wiper arm window latch system comprising:  
a wiper arm rotatably mounted in a window  
for wiping said window;  
5 a drive motor for driving said wiper arm;  
and  
a drive coupler for coupling said wiper arm  
to said drive motor in order to latch said window to a  
door and also for coupling said wiper arm to said  
10 drive motor such that when said window is in a closed  
position said wiper arm may be rotatably driven by  
said drive motor.
- ✓2. The wiper arm window latch system as recited  
in claim 1 wherein said drive latch comprises:  
15 a receiver for receiving an end of said  
wiper arm;  
a lock associated with said receiver for  
locking said wiper arm onto said receiver.
- ✓3. The wiper arm window latch system as recited  
in claim 2 wherein said end comprises at least one  
groove; ~~said lock comprising:~~  
a resilient detent for cooperating with said  
5 at least one groove to lock said end of said wiper arm  
in said receiver.
- ✓4. The wiper arm window latch system as recited  
in claim 3 wherein said drive latch comprises an axis,  
said resilient detent comprises at least one spring-  
loaded ball biased towards said axis and received in  
5 said at least one groove to detachably lock said end  
of said wiper arm to said drive motor.

- ✓ 5. The wiper arm window latch system as recited in claim 1 wherein an end of said window wiper arm comprises a wiper latch, said drive latch comprises:  
a cam member which cooperates with said wiper latch to lock said window to said door and permitting said wiper arm to rotate when driven by said drive motor.
- ✓ 6. The wiper arm window latch system as recited in claim 5 wherein said drive latch further comprises a cam wall which said cam member engages when said drive motor drives said wiper blade to an open position to unlock said window.
7. The wiper arm window latch system as recited in claim 3 wherein said wiper blade comprises an associated wiper drive torque, said resilient detent comprises a resilient detent torque and said drive motor comprises a drive motor torque, said drive motor torque being greater than said resilient detent torque which is greater than said wiper drive torque.
- ✓ 8. The wiper arm window latch system as recited in claim 1 wherein said drive coupler is located on an output shaft of said drive motor.
- ✓ 9. The wiper arm window latch system as recited in claim 1 wherein said drive coupler is located on an end of said wiper blade.
- ✓ 10. The wiper arm window latch system as recited in claim 1 wherein said drive coupler comprises at least one spring-loaded ball.

- ✓ 11. The wiper arm window latch system as recited in claim 1 wherein said wiper arm comprises an end for receipt in said drive coupler in order to permit said end to be snap-fit into said drive coupler.
- ✓ 12. The wiper arm window latch system as recited in claim 11 wherein said end comprises a portion which is generally conical.
- ✓ 13. The wiper arm window latch system as recited in claim 1 wherein said a drive coupler comprises a cam, said system further comprising:  
a controller coupled to said drive motor for  
5 controlling the operation of said drive motor such that when said controller energizes said drive motor to open said window, said drive motor drives said drive coupler to cause said cam to engage a cam wall to release said end of said wiper arm, thereby opening  
10 said window.
- ✓ 14. The wiper arm as recited in claim 1 wherein said drive coupler comprises a spring for biasing an insert end of said wiper arm away from said drive  
-----coupler so that when said drive coupler unlatches said  
5 wiper arm said wiper arm and said window are thrust towards an open position.
- ✓ 15. The wiper arm window latch system as recited in claim 1 wherein said system comprises a stop for stopping said wiper arm in a predetermined position.
- 10 ✓ 16. The wiper arm window latch system as recited in claim 15 wherein said stop is a mechanical stop.

17. The wiper arm window latch system as recited in claim 15 wherein said stop is a software algorithm which causes a controller to stop the wiper arm in said predetermined position.

5 ✓18. A wiper system comprising a wiper arm, said wiper system comprising:

a wiper motor comprising an output shaft having a drive latch assembly;

said drive latch assembly comprising:

10 a latch release for detachably latching said wiper arm to said wiper motor so that said window becomes locked to said door; and

a resilient detent for detachably coupling said wiper arm to said output shaft, regardless of a  
15 rotational position of said wiper arm.

✓19. The wiper system as recited in claim 18 wherein said latch release comprises a spring-actuated cam lock.

✓20. The wiper system as recited in claim 19 wherein said wiper arm comprises an end comprising at least one groove, said lock comprising:

a resilient detent for cooperating with said  
5 at least one groove to lock said end of said wiper arm in said receiver.

21. The wiper system as recited in claim 20 wherein said drive latch assembly comprises an axis, said resilient detent comprises at least one spring-loaded ball biased towards said axis and received in  
5 said at least one groove to detachably lock said end of said wiper arm in said receiver.

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27. The wiper system as recited in claim 18 wherein said wiper arm comprises an end for receipt in said drive coupler in order to permit said end to be snap-fit into said drive coupler.

✓ 28. The wiper system as recited in claim 27 wherein said end comprising a portion which is generally conical.

✓ 29. The wiper system as recited in claim 18 wherein said drive coupler comprises a cam, said system further comprising:

a controller coupled to said drive motor for  
5 controlling the operation of said drive motor such  
that when said controller energizes said drive motor  
to open said window, said drive motor drives said  
drive coupler to cause said cam to engage a cam wall  
to release said end of said wiper arm, thereby opening  
10 said window.

30. A method for locking a window onto a door  
and a wiper arm onto an output shaft of a motor  
comprising the steps of:

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rotatably mounting a wiper arm onto said
15 window;

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mounting a drive motor for driving said  
wiper arm onto a door; and

20 situating a drive latch onto said drive  
motor; said drive latch latching said window to said  
door when said window is in a closed position and  
substantially simultaneously coupling said wiper arm  
to said drive motor such that when said window is in  
said closed position said wiper arm may be driven by  
said drive motor.

31. The method as recited in claim 30 wherein said method further comprises the step of:

providing a drive latch comprising a receiver for receiving an end of said wiper arm;

5 providing a drive latch comprising a lock associated with said receiver for locking said wiper arm onto said receiver.

32. The method as recited in claim 31 wherein said end comprises at least one groove, said method further comprises:

providing a drive latch comprising a lock  
5 comprising a resilient detent for cooperating with  
said at least one groove to lock said end of said  
wiper arm in said receiver.

33. The method as recited in claim 32 wherein  
said drive latch comprises an axis, said method  
10 comprising the step of:

situating at least one spring-loaded ball biased towards said axis in said drive latch to be received in said at least one groove in order to detachably lock said end of said wiper arm in said receiver.

34. The method as recited in claim 30 wherein said method comprises the steps of:

providing a window wiper comprising an end having a wiper latch,

5 providing a drive latch comprising a cam ~~member which cooperates with said wiper latch to lock~~ said window to said door while permitting said wiper arm to rotate when driven by said drive motor.

35. The method as recited in claim 34 wherein said drive latch further comprises a cam wall, said method comprising the step of:

positioning said cam wall in proximity to  
5 said cam member so that when said drive motor drives  
said wiper blade to a window open position, said  
window is unlocked.

36. The method as recited in claim 32 wherein said method further comprises the step of:

providing a wiper blade comprising an associated wiper drive torque which is less a resilient detent torque of said resilient detent which is less than a drive motor torque of said drive motor.

37. The method as recited in claim 30 wherein said method further comprises the step of:

stopping the wiper arm on the glass.

10 38. The method as recited in claim 37 wherein said method further comprises the step of:

using a mechanical stop to stop the wiper arm on the glass.

15 39. The method as recited in claim 37 wherein said method further comprises the step of:

using a stopping routine to cause said controller to stop said wiper arm.

40. A method for latching a window to a door, said method comprising the steps of:

20 ~~rotatably mounting a wiper arm on a window;~~

using a drive coupler to couple said wiper arm to a drive motor and to also retain the window in a closed position.

41. The method as recited in claim 40 wherein said method further comprises the step of:

providing the drive coupler on an output shaft of said drive motor.

42. The method as recited in claim 40 wherein said method further comprises the step of:

providing the drive coupler on an end of said wiper blade.



43. The method as recited in claim 40 wherein said method further comprises the step of:

providing a drive coupler having at least one spring-loaded ball.

44. The method as recited in claim 41 wherein said method further comprises the step of:

providing a wiper arm having a notched end for receipt in said drive coupler in order to permit said  
5 end to be snap-fit into said drive coupler.

45. The method as recited in claim 44 wherein said method further comprises the step of:

providing an end comprising a portion which is conical.

46. The method as recited in claim 45 wherein said method further comprises the step of:

providing a drive coupler having a cam;  
providing a controller for controlling the  
5 operation of said drive motor such that when said  
controller energizes said drive motor to open said  
window, said drive motor drives said drive coupler to  
~~cause said cam to engage a cam wall to release said~~  
end of said wiper arm, thereby opening said window.

10 47. The method as recited in claim 30 wherein said  
method comprises the step of:

driving said drive latch to a first position where said drive motor is de-coupled from said wiper arm.

15 48. The method as recited in claim 30 wherein said  
method further comprises the step of:

driving said drive latch to a second position where said window becomes unlatched from said door.

1030 1100 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760 2770 2780 2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900 2910 2920 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 4080 4090 4100 4110 4120 4130 4140 4150 4160 4170 4180 4190 4200 4210 4220 4230 4240 4250 4260 4270 4280 4290 4300 4310 4320 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680 4690 4700 4710 4720 4730 4740 4750 4760 4770 4780 4790 4800 4810 4820 4830 4840 4850 4860 4870 4880 4890 4900 4910 4920 4930 4940 4950 4960 4970 4980 4990 5000 5010 5020 5030 5040 5050 5060 5070 5080 5090 5100 5110 5120 5130 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 5270 5280 5290 5300 5310 5320 5330 5340 5350 5360 5370 5380 5390 5400 5410 5420 5430 5440 5450 5460 5470 5480 5490 5500 5510 5520 5530 5540 5550 5560 5570 5580 5590 5600 5610 5620 5630 5640 5650 5660 5670 5680 5690 5700 5710 5720 5730 5740 5750 5760 5770 5780 5790 5800 5810 5820 5830 5840 5850 5860 5870 5880 5890 5900 5910 5920 5930 5940 5950 5960 5970 5980 5990 6000 6010 6020 6030 6040 6050 6060 6070 6080 6090 6100 6110 6120 6130 6140 6150 6160 6170 6180 6190 6200 6210 6220 6230 6240 6250 6260 6270 6280 6290 6300 6310 6320 6330 6340 6350 6360 6370 6380 6390 6400 6410 6420 6430 6440 6450 6460 6470 6480 6490 6500 6510 6520 6530 6540 6550 6560 6570 6580 6590 6600 6610 6620 6630 6640 6650 6660 6670 6680 6690 6700 6710 6720 6730 6740 6750 6760 6770 6780 6790 6800 6810 6820 6830 6840 6850 6860 6870 6880 6890 6900 6910 6920 6930 6940 6950 6960 6970 6980 6990 7000 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 7200 7210 7220 7230 7240 7250 7260 7270 7280 7290 7300 7310 7320 7330 7340 7350 7360 7370 7380 7390 7400 7410 7420 7430 7440 7450 7460 7470 7480 7490 7500 7510 7520 7530 7540 7550 7560 7570 7580 7590 7600 7610 7620 7630 7640 7650 7660 7670 7680 7690 7700 7710 7720 7730 7740 7750 7760 7770 7780 7790 7800 7810 7820 7830 7840 7850 7860 7870 7880 7890 7900 7910 7920 7930 7940 7950 7960 7970 7980 7990 8000 8010 8020 8030 8040 8050 8060 8070 8080 8090 8100 8110 8120 8130 8140 8150 8160 8170 8180 8190 8200 8210 8220 8230 8240 8250 8260 8270 8280 8290 8300 8310 8320 8330 8340 8350 8360 8370 8380 8390 8400 8410 8420 8430 8440 8450 8460 8470 8480 8490 8500 8510 8520 8530 8540 8550 8560 8570 8580 8590 8600 8610 8620 8630 8640 8650 8660 8670 8680 8690 8700 8710 8720 8730 8740 8750 8760 8770 8780 8790 8800 8810 8820 8830 8840 8850 8860 8870 8880 8890 8900 8910 8920 8930 8940 8950 8960 8970 8980 8990 9000 9010 9020 9030 9040 9050 9060 9070 9080 9090 9100 9110 9120 9130 9140 9150 9160 9170 9180 9190 9200 9210 9220 9230 9240 9250 9260 9270 9280 9290

49. The method as recited in claim 47 wherein said method further comprises the step of:

driving said drive latch to a second position where said window becomes unlatched from said door.

5 ✓ 50. A wiper arm window latch system comprising:  
a wiper arm rotatably mounted in a window for wiping said window;

a drive motor for driving said wiper arm; and  
coupler means for coupling said wiper arm to said  
10 drive motor in order to latch said window to a door and also for coupling said wiper arm to said drive motor such that when said window is in a closed position said wiper arm may be rotatably driven by said drive motor.

✓ 51. The wiper arm window latch system as recited in claim 50 wherein said drive latch comprises:

a receiver for receiving an end of said wiper arm;  
5 a lock associated with said receiver for locking said wiper arm onto said receiver.

✓ 52. ~~The wiper arm window latch system as recited in~~ claim 51 wherein said end comprises at least one groove, said lock comprising:

a resilient detent for cooperating with said at  
5 least one groove to lock said end of said wiper arm in said receiver.

53. The wiper arm window latch system as recited in claim 52 wherein said drive latch comprises an axis, said resilient detent comprises at least one spring-loaded ball biased towards said axis and received in  
5 said at least one groove to detachably lock said end of said wiper arm in said receiver.

54. The wiper arm window latch system as recited in claim 50 wherein an end of said window wiper comprises a wiper latch, said drive latch comprises:

a cam member which cooperates with said wiper  
5 latch to lock said window to said door and permitting  
said wiper arm to rotate when driven by said drive  
motor.

55. The wiper arm window latch system as recited in claim 54 wherein said drive latch further comprises a cam wall which said cam member engages when said drive motor drives said wiper blade to an open position to unlock said window.

56. The wiper arm window latch system as recited in claim 52 wherein said wiper blade comprises an associated wiper drive torque, said resilient detent comprises a resilient detent torque and said drive motor comprises a drive motor torque, said drive motor torque being greater than said resilient detent torque which is greater than said wiper drive torque.

✓57. The wiper arm window latch system as recited in  
~~claim 50 wherein said coupler means is located on an~~  
 output shaft of said drive motor.

✓ 58. The wiper arm window latch system as recited in claim 50 wherein said coupler means is located on an end of said wiper blade.

59. The wiper arm window latch system as recited in claim 50 wherein said coupler means comprises at least one spring-loaded ball.

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| 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378</ |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|